

What is claimed is:

1. A fluid separation centrifuge for the separation of particulate matter from a fluid, said separation centrifuge including a rotor housing and a fluid separation device positioned within said rotor housing, wherein the improvement comprises:

    said fluid separation device including a base plate which is designed and arranged with a peripheral lip formed with a generally cylindrical modified portion therein; and

    said rotor housing including a generally cylindrical projection which is designed and arranged to contact said modified portion so as to create a generally cylindrical sealed interface at the location of circumferential contact between said projection and said modified portion.

2. The fluid separation centrifuge of claim 1 wherein said modified portion has a lateral cross sectional shape which is U-shaped.

3. The fluid separation centrifuge of claim 2 wherein said rotor housing is fabricated out of plastic.

4. The fluid separation centrifuge of claim 3 wherein said rotor assembly is designed and arranged as a disposable rotor assembly.

5. The fluid separation centrifuge of claim 4 which further includes a sealing compound placed between said projection and said modified portion.

6. The fluid separation centrifuge of claim 1 wherein said modified portion has the shape of a raised cylindrical wall.

7. The fluid separation centrifuge of claim 6 wherein said projection and said raised cylindrical wall are securely joined together by means of a spin weld.

8. The fluid separation centrifuge of claim 1 wherein said rotor housing is fabricated out of plastic.

9. The fluid separation centrifuge of claim 1 wherein said rotor assembly is designed and arranged as a disposable rotor assembly.

10. The fluid separation centrifuge of claim 1 which further includes a sealing compound placed between said projection and said modified portion.

11. A fluid separation centrifuge for the separation of particulate matter from a fluid, said separation centrifuge including a rotor housing and a fluid separation device positioned within said rotor housing, wherein the improvement comprises:

a support plate comprising one portion of said fluid separation device, said support plate defining an annular receiving channel; and

a raised, substantially cylindrical projection comprising one portion of said rotor housing, said cylindrical projection being received by said receiving channel with an interference fit for establishing a sealed interface between said projection and said receiving channel.

12. The fluid separation centrifuge of claim 11 wherein said receiving channel has a lateral cross sectional shape which is U-shaped.

13. The fluid separation centrifuge of claim 12 wherein said rotor housing is fabricated out of plastic and said projection is in unitary construction with the remainder of said rotor housing.

14. The fluid separation centrifuge of claim 13 wherein said rotor housing is designed and arranged as a disposable component.

15. The fluid separation centrifuge of claim 14 which further includes a sealing compound placed between said projection and said receiving channel.

16. The fluid separation centrifuge of claim 11 wherein said rotor housing is fabricated out of plastic and said projection is in unitary construction with the remainder of said rotor housing.

17. The fluid separation centrifuge of claim 11 wherein said rotor housing is designed and arranged as a disposable component.

18. The fluid separation centrifuge of claim 11 which further includes a sealing compound placed between said projection and said receiving channel.